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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/782,681

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Yue Jun Jiang

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COURTNEY STANIFORD & GREGORY LLP
P.O. BOX 9686
SAN JOSE, CA 95157

EXAMINER

TAYLOR, BARRY W

ART UNIT

PAPER NUMBER

2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/782,681

Applicant(s)

JIANG, YUE JUN

Examiner

Barry W. Taylor

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 1/31/07.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-79 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-79 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 April 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 76 recites the limitation "the inbound" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. The claimed invention is directed to non-statutory subject matter. The recited limitations appearing in claim 39 is non-statutory because they do not meet the interim guidelines, which require:

- a) computer program
- b) computer program readable storage medium
- c) computer program must be stored/encoded on the computer

readable medium.

Therefore, since claim 39 only recites computer readable medium is not proper.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 61-66, 69-71, 73-76 and 78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar et al (6,603,968) in view of Ala-Luukko (2003/0050047).

Regarding claim 61. Anvekar teaches a method for supporting MSISDN numbers in an inbound roaming device, comprising:

registering the mobile in a public network which the mobile device is roaming (col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

the public network accepting the registration of the mobile device (col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show sending messages to a gateway and the gateway determining whether the mobile device is a subscriber to temporary local number service.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two

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different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 62. Anvekar teaches using global title (see MSISDN can be used as a global identifier --- col. 7 line 44).

Regarding claim 63. Anvekar teaches public mobile network mapping a local MSISDN for using of the roaming mobile device (col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Regarding claim 64. Anvekar teaches a method for supporting MSISDN number in a roaming mobile device, comprising:

registering the mobile device in a foreign public network (col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show a signal gateway coupling a home network of the mobile device and the foreign public mobile network without using a RSPN at the foreign public mobile network and transmitting a welcome message to the mobile, wherein the message comprised and offer to receive incoming calls from within the foreign public mobile network at preferred rates while registered with the foreign public mobile network.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 65. Anvekar teaches assigning a temporary local number to the mobile device (col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Regarding claim 66. Anvekar teaches sending the temporary number via SMS (col. 9 lines 50-67).

Regarding claim 69. Anvekar teaches a method for supporting MSISDN numbers in a roaming device, the method comprising:

rejecting a predetermined number of registration request by the roaming mobile device to register with the VPMN (col. 6 line 57 – col. 8 line 6);

registering the roaming device with a Mobile Network, upon a registration attempt by the roaming device to register with the network (col. 6 line 57 – col. 8 line 6).

Anvekar does not show wherein a signal related to the registering is directed through a signal gateway coupling a Home Public Mobile Network (HPMN) of the mobile device and the FPMN without using a Roaming Service Provider Node (RSPN) at the FPMN; and wherein the VPMN is a non-FPMN and a non-HPMN.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 70. Anvekar teaches a method for supporting MSISDN in a roaming mobile device, comprising:

registering the mobile device in a foreign network (col. 6 line 57 – col. 8 line 6),

at the foreign network, assigning a local number to the mobile device (col. 6 line 57 – col. 8 line 6).

Anvekar does not show registering the mobile device in a Foreign Public Mobile Network (FPMN), wherein a signal related to the registering is directed through a signal gateway coupling a home network of the mobile device and the FPMN without using a Roaming Service Provider Node (RSPN) at the foreign public mobile network.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 71. Anvekar teaches the local number is a temporary number (col. 4 lines 41-60, col. 6 line 57 – col. 8 line 6).

Regarding claims 73-76. Ala-Luukko teaches the gateway communicates with home network (i.e. inbound roaming --- paragraphs 0036 – 0041) or the gateway communicates to VLR (i.e. outbound --- paragraph 0040).

Regarding claim 78. Anvekar teaches the gateway supports multiple home networks (col. 6 lines 25-34).

4. Claims 67 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar et al (6,603,968) in view of Ala-Luukko (2003/0050047) further in view of Berg et al (6,876,860 hereinafter Berg).

Regarding claim 67. Anvekar in view of Ala-Luukko do not show InsertSubscriberData protocol being used.

Berg teaches using a call back service for roaming mobile telephones (title, abstract, col. 1 lines 15 – col. 2 line 42) which simplifies roaming both internationally and between networks of different operators and creates a uniform protocol for accessing services in other GSM networks.

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the call back service as taught by Berg into the teachings of Anvekar in view of Ala-Luukko in order to provide a uniform standard for roaming mobile users where the ratio of fees between VPLMN and HPLMN are reversed as taught by Berg (col. 1 lines 15-20, lines 62-65).

Regarding claim 72. Anvekar in view of Ala-Luukko do not show providing free roaming service.

Berg teaches using a call back service for roaming mobile telephones (title, abstract, col. 1 lines 15 – col. 2 line 42) which simplifies roaming both internationally and between networks of different operators and creates a uniform protocol for accessing services in other GSM networks. Berg provides free service (col. 1 line 66 – col. 2 line 3).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the call back service as taught by Berg into the teachings of Anvekar in view of Ala-Luukko in order to provide a uniform standard for roaming mobile users where the ratio of fees between VPLMN and HPLMN are reversed as taught by Berg (col. 1 lines 15-20, lines 62-65).

5. Claims 68 and 79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar et al (6,603,968) in view of Ala-Luukko (2003/0050047) further in view of Niepel et al (6,671,523 hereinafter Niepel).

Regarding claim 68. Anvekar teaches a method for supporting MSISDN numbers in an outbound roaming device, comprising:

Registering the outbound roaming mobile in a public network (col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show the gateway not using RSPN.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two

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different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Anvekar in view of Ala-Luukko do not show voicemail.

Niepel teaches subscriber profiles associated with SIM wherein SIM can also be associated with two or more MSISDN numbers that are distinguished by different associated subscriber profiles (abstract).

It would have been obvious for any one of ordinary skill in the art at the time of invention to associate subscriber profiles to MSISDN numbers as taught by Niepel into the teachings of Anvekar in view of Ala-Luukko in order to provide different services to the users as taught by Niepel (abstract, col. 2 lines 10-16, col. 2 lines 47-52).

6. Claims 1-7, 10-22, 25-35, 38-46, 49-54, 56-57, 60 and 77 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar et al (6,603,968) in view of Molne (6,014,561) further in view of Ala-Luukko (2003/0050047).

Regarding claim 1. Anvekar teaches a communication system (title, abstract) comprising:

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a mobile device including a SIM and a single IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

a first MSISDN for use in a first public mobile network (col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show more than one MSISDN in conjunction with same SIM.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show signal gateway using only one IMSI.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 17. Anvekar teaches a communication system (title, abstract), comprising:

means for wireless communications (figure 5, col. 6 line 25 – col. 8 line 6);

means for associating a single subscriber identity with the means for wireless communications (figure 5, col. 6 line 25 – col. 8 line 6).

Anvekar does not show first and second telephone number in conjunction with a single subscriber identity.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show signal gateway using only one IMSI.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 18. Anvekar teaches a system comprising a wireless client device that includes:

one SIM having one IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show more than two MSISDN in conjunction with one SIM having only one IMSI.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of

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Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show signal gateway using only one IMSI.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 19. Anvekar teaches a device comprising:

Mobile device includes a single SIM and a single IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show SIM having two MSISDN.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show signal gateway using only one IMSI and one SIM.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

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Regarding claim 30. Anvekar teaches a method for supporting multiple MSISDN in a mobile device, comprising:

routing communication between the mobile device and first network using first MSISDN wherein the mobile device includes a SIM with a single IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

mapping the first MSISDN to second MSISDN that is associated with second network (col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show SIM in conjunction with two MSISDN.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show routing using only one IMS.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two

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different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 39. Computer claim 39 is rejected for the same reasons as method claim 30 since the recited method would perform the claimed program steps.

Regarding claim 40. Anvekar teaches a communication system comprising:

a mobile device including a SIM and a single IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

a first MSISDN for use in a first network (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

a plurality of second MSISDN for using in at least one second mobile network (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

Anvekar does not show SIM having two or more MSISDN.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show routing using only one IMS.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 49. Anvekar teaches a method for supporting multiple MSISDN in a mobile device, comprising:

routing communication between the mobile device and a first network using first MSISDN associated with the first network, wherein the mobile device includes a SIM with single IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

mapping the first MSISDN to one of a plurality of second MSISDN that are associated with a second network (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show SIM having two or more MSISDN.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show routing using only one IMS.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claim 77. Anvekar teaches a method for routing communication, the method comprising:

assigning a first MSISDN to a mobile device in a first network, the mobile device having SIM and a single IMSI (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6);

assigning a second MSISDN to the mobile device for use in a second network (col. 1 line 41 – col. 2 line 18, col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Anvekar does not show SIM having two or more MSISDN.

Molne teaches the SIM comprises multiple MSISDNs (see SIM card in figure 4, col. 8 lines 14-32).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the teachings of Molne into the teachings of Anvekar in order to provide a method and apparatus for over the air activation of multiple mode/band radio telephone as disclosed by Molne (abstract, col. 2 line 66 – col. 3 line 2).

Anvekar in view of Molne do not show routing using only one IMS.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

Regarding claims 2-3, 41-42. Molne teaches that SIM can have more than one MSISDN (see SIM card in figure 4, col. 8 lines 14-32).

Regarding claims 4-5, 20, 33, 43-44, 52. Anvekar teaches the MSISDN can be used in local network or used in roaming network (col. 4 lines 41-60, col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Regarding claims 6, 21, 34, 45, 56. Anvekar teaches mapping MSISDN numbers (col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Regarding claims 7, 22, 35, 46, 57. Anvekar teaches one component of the at least one signal gateway provides at least one of a HLR, a visited VLR (col. 4 lines 25-26, col. 6 line 57 – col. 7 line 14, a GMSC, a short message

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service center (col. 9 lines 39-59), and a service node in at least one of the first network and second network (see either nodes 520A or 520B in figure 5).

Regarding claims 10-15, 25-28. Anvekar teaches Signaling System 7 (col. 12 line 67).

Regarding claims 16, 29, 38, 60. Anvekar teaches at least one of cellular telephones (item 180 in figure 1).

Regarding claims 31 and 50. Anvekar teaches SIM in conjunction with IMSI (col. 4 lines 41-60).

Regarding claims 32, 51. Anvekar in view of Molne do not teach routing in conjunction with SIM having only single IMSI.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

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Regarding claim 53. Anvekar teaches wherein the IMSI is associated with the first MSISDN number in the first network, and wherein the plurality of second MSISDN are in a designated range of numbers defined in the second network (col. 6 line 57 – col. 7 line 14, col. 7 line 15 – col. 8 line 6).

Regarding claim 54. Anvekar in view of Molne do not teach gateway serving as a HLR.

Ala-Luukko also teaches IMSI in conjunction with MSISDN (paragraphs 0004 – 0005). Ala-Luukko also teaches that one IMSI can be associated with more than one MSISDN (paragraph 0023). Ala-Luukko teaches the HLR offers an interface to a gateway node to be used for requesting MSISDN number on the basis of IMSI thereby eliminating the need to copy and/or store data in two different places (paragraphs 0036 – 0043) thus enabling for real-time services to be employed from the gateway (paragraphs 0005, 0011, 0012, 0013).

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the signal gateway as taught by Ala-Luukko into the teachings of Anvekar in view of Molne thereby eliminating the need to store subscriber data in two different locations while providing a method and system that can offer and charge for real-time services as taught by Ala-Luukko (paragraphs 0005, 0011 – 0013).

7. Claims 8-9, 23-24, 36-37, 47-48, 55, 58-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar et al (6,603,968) in view of Molne (6,014,561) and Ala-Luukko (2003/0050047) further in view of Berg et al (6,876,860 hereinafter Berg).

Regarding claims 8-9, 23-24, 36-37, 47-48, 58-59. Anvekar in view of Molne and Ala-Luukko do not use the term loop-back.

Berg teaches using a call back service for roaming mobile telephones (title, abstract, col. 1 lines 15 – col. 2 line 42) which simplifies roaming both internationally and between networks of different operators and creates a uniform protocol for accessing services in other GSM networks.

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the call back service as taught by Berg into the teachings of Anvekar in view of Molne and Ala-Luukko in order to provide a uniform standard for roaming mobile users where the ratio of fees between VPLMN and HPLMN are reversed as taught by Berg (col. 1 lines 15-20, lines 62-65).

Regarding claim 55. Anvekar in view of Molne and Ala-Luukko do not show different profiles associated with the MSISDN in a second network.

Berg teaches using a call back service for roaming mobile telephones (title, abstract, col. 1 lines 15 – col. 2 line 42) which simplifies roaming both internationally and between networks of different operators and creates a uniform protocol for accessing services in other GSM networks.

It would have been obvious for any one of ordinary skill in the art at the time of invention to incorporate the call back service as taught by Berg into the teachings of Anvekar in view of Molne and Ala-Luukko in order to provide a uniform standard for roaming mobile users where the ratio of fees between

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VPLMN and HPLMN are reversed as taught by Berg (col. 1 lines 15-20, lines 62-65).

Response to Arguments

8. Applicant's arguments with respect to claims 1-79 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry W. Taylor, telephone number (571) 272-7509, who is available Monday-Thursday, 6:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost, can be reached at (571) 272-7872. The central facsimile phone number for this group is **571-273-8300**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (571) 272-2600, the 2600 Customer Service telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Barry W. Taylor
Art Unit 2617


BARRY TAYLOR
PRIMARY EXAMINER

2/8/07